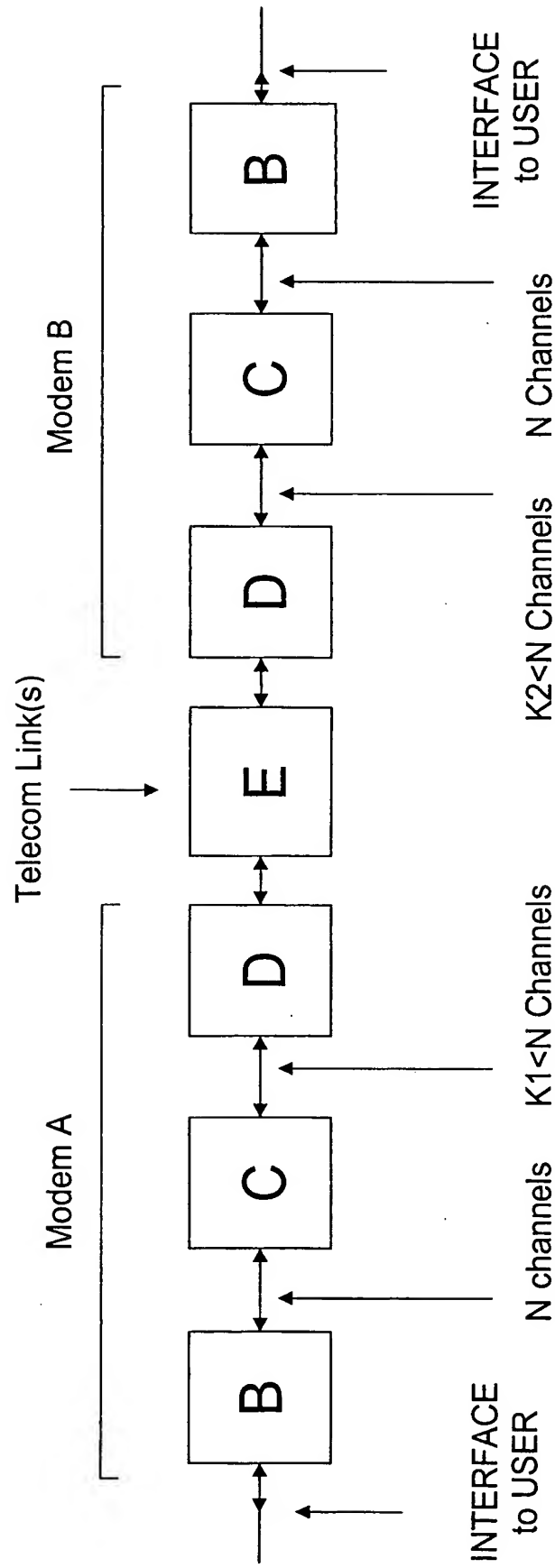


Fig. 1 – The Space-Time Link Block Diagram
(point to point connectivity)

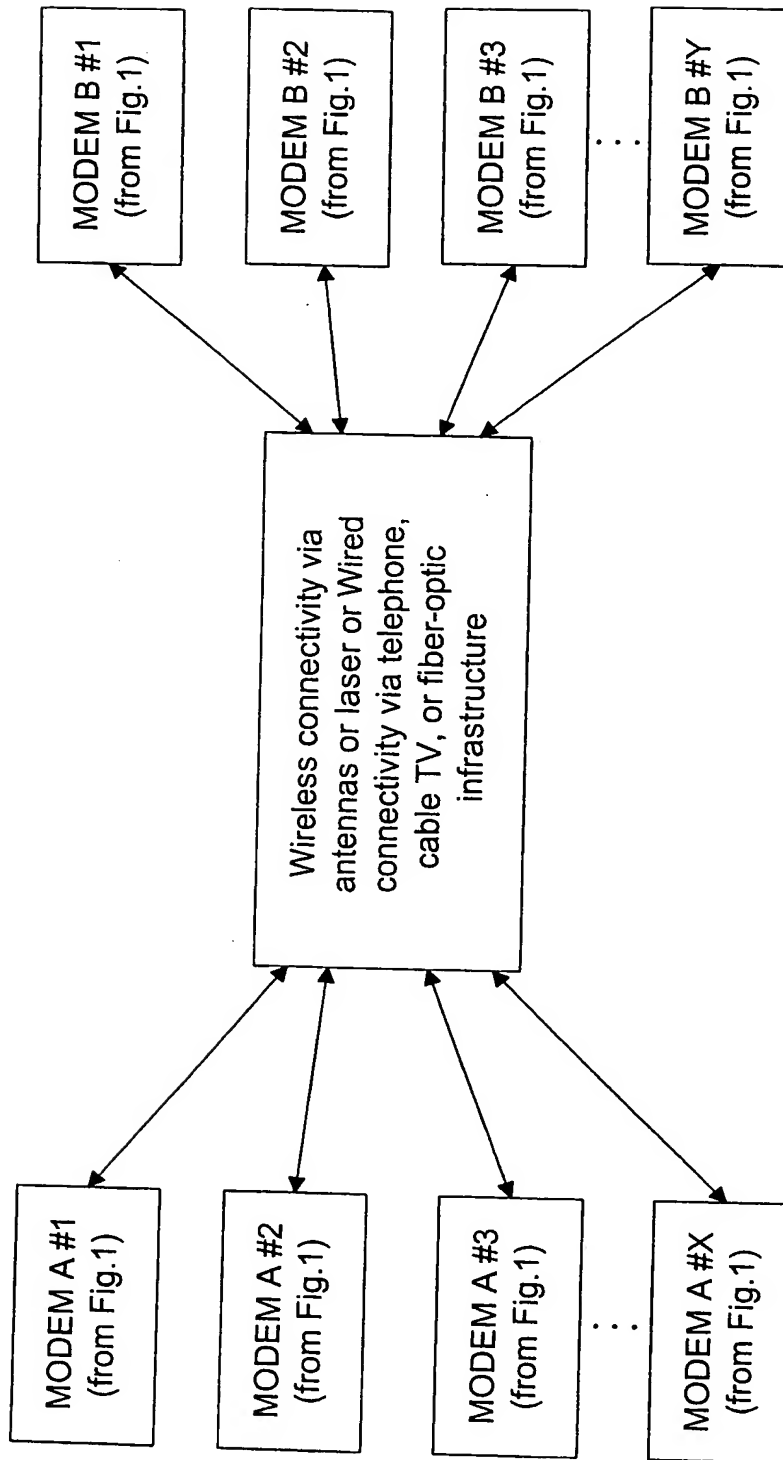
B = Space-Time MIMO transceiver
 C = Space-Time Antenna Reduction Chamber or Expansion Chamber (STARC or STAEC)
 D = Frequency Spectrum Shifting Module (Repeater)
 E = Telecommunication infrastructure or wireless



Notes

K1 = 1 to N-1 is the number of input/output channels of Modem A
 K2 = 1 to N-1 is the number of input/output channels of Modem B

Fig. 2 - The Space-Time Link Block Diagram
(multi-point to multi-point connectivity)



Notes

X and Y can be any number of modems.
X does not have to equal Y

Fig. 3 The Space-Time MIMO transceiver(Block B of Fig.1)

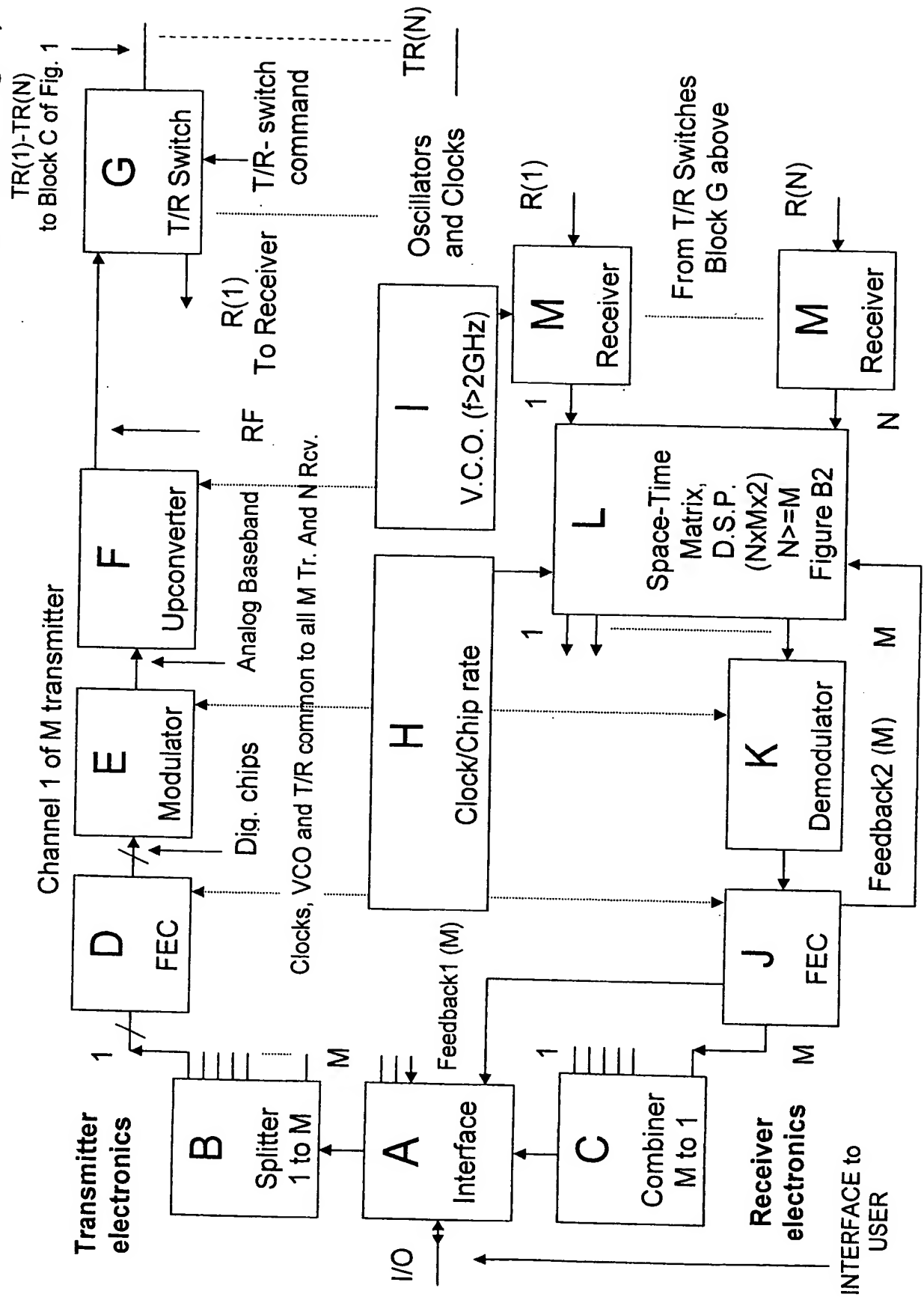
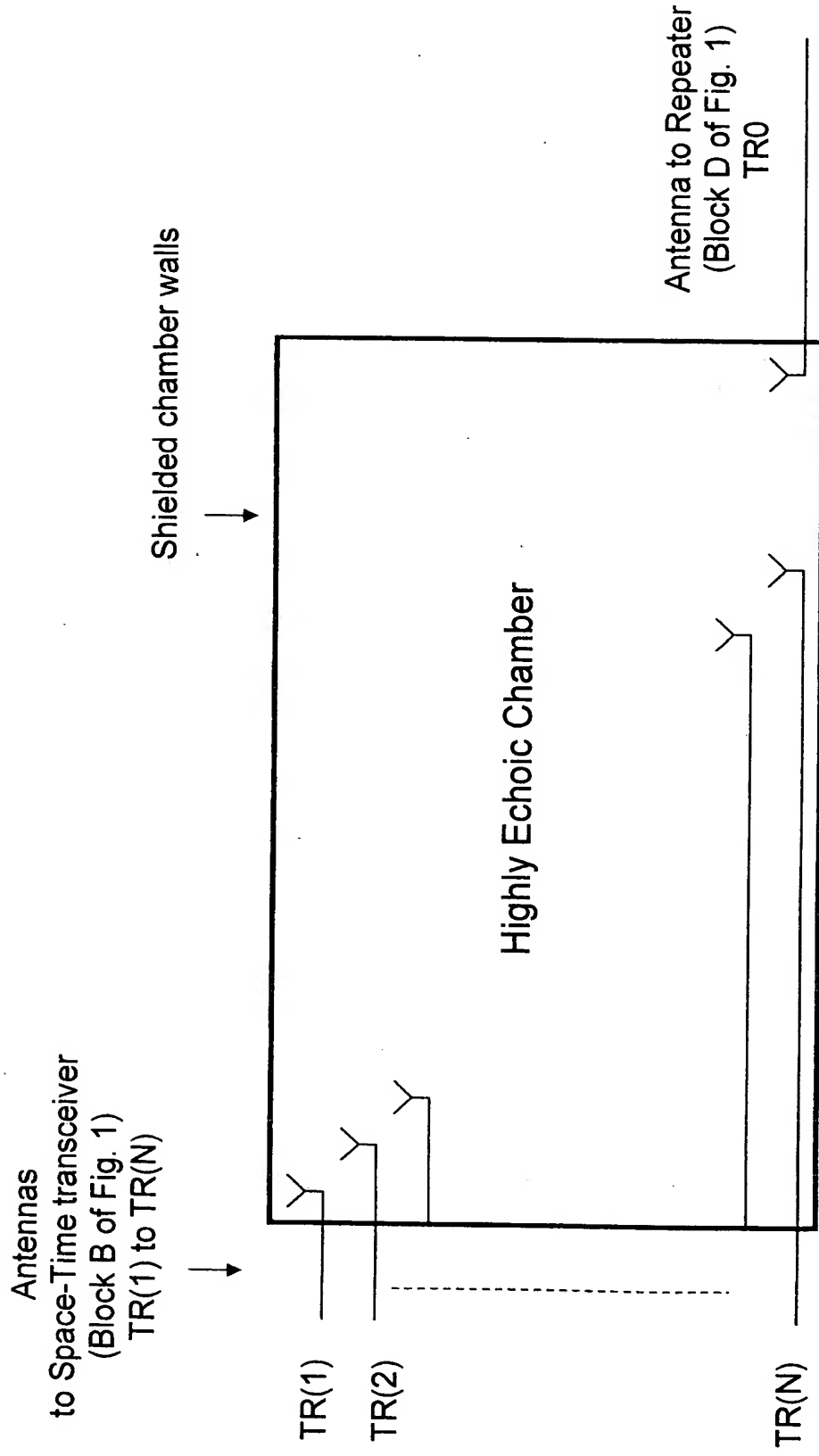
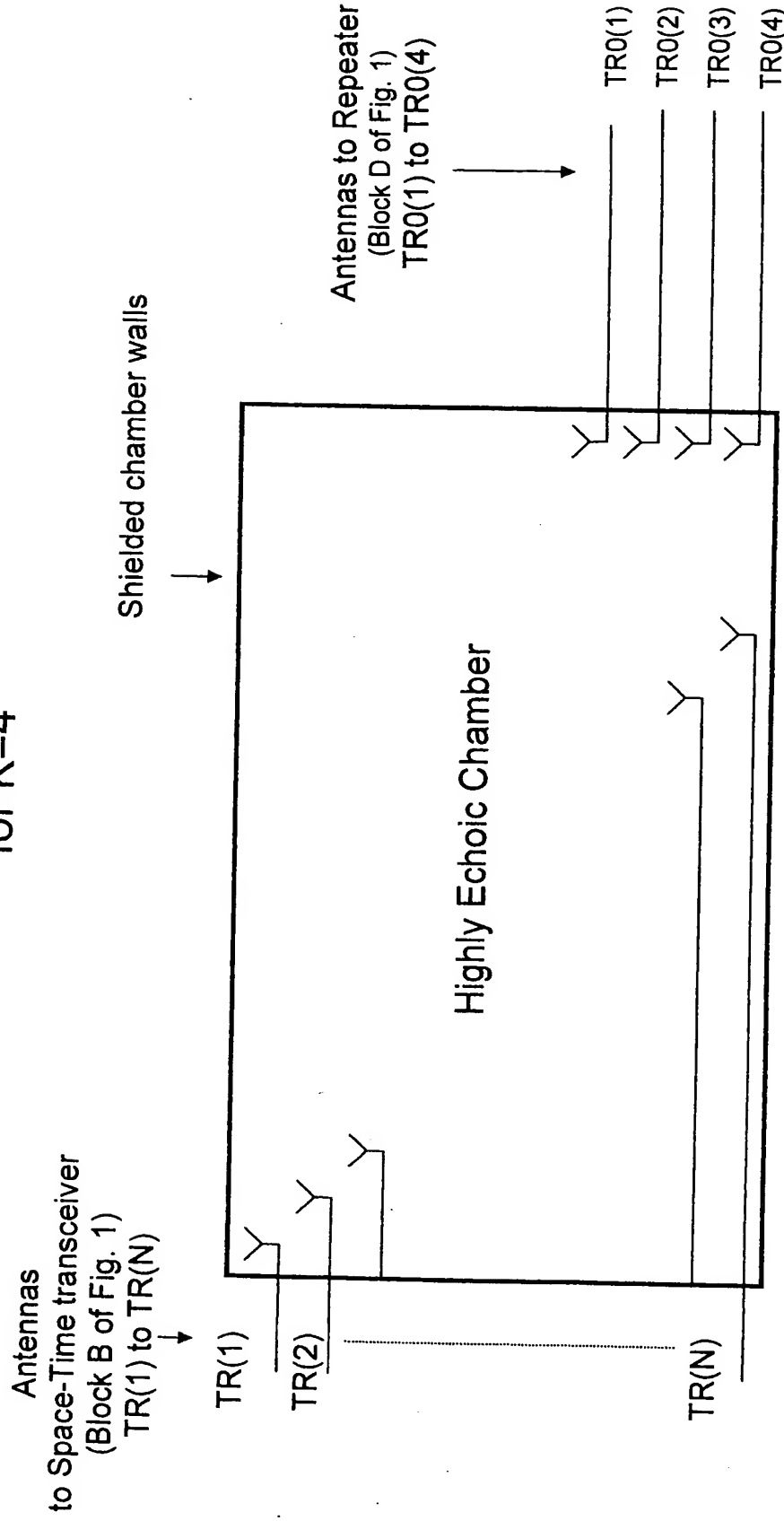


Fig. 4 - The Space-Time Antenna Chamber (Block C of Fig. 1)
for $K=1$



Notes N is the number of TR channels
 $K=1$ is the number of TR0 channels

Fig. 5 - The Space-Time Antenna Chamber (Block C of Fig.1)
for $K=4$



Notes

N is the number of TR channels

K is the number of TR0 channels

Fig. 6 – Repeater and Telecom Link (Block D of Fig. 1)

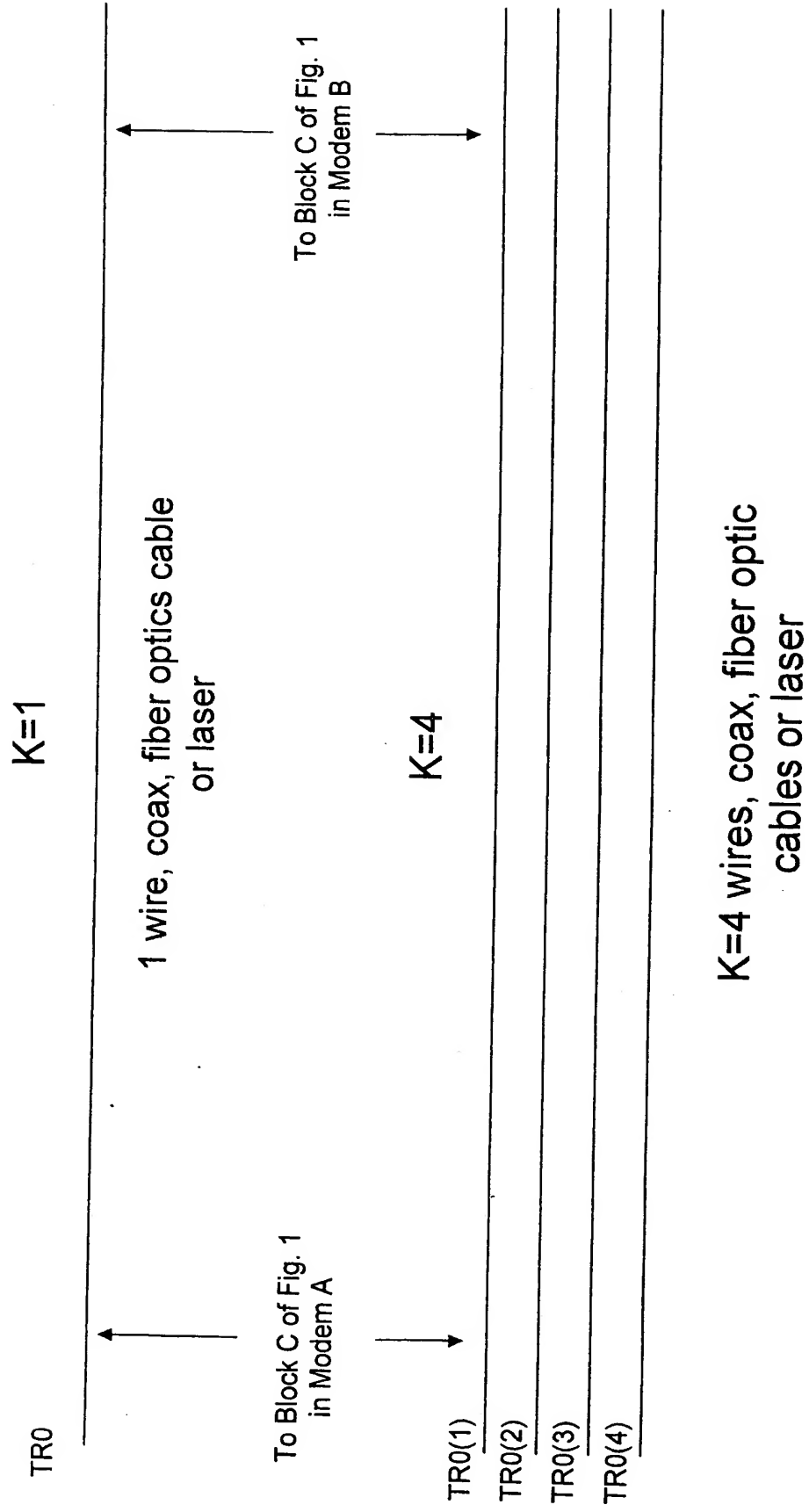
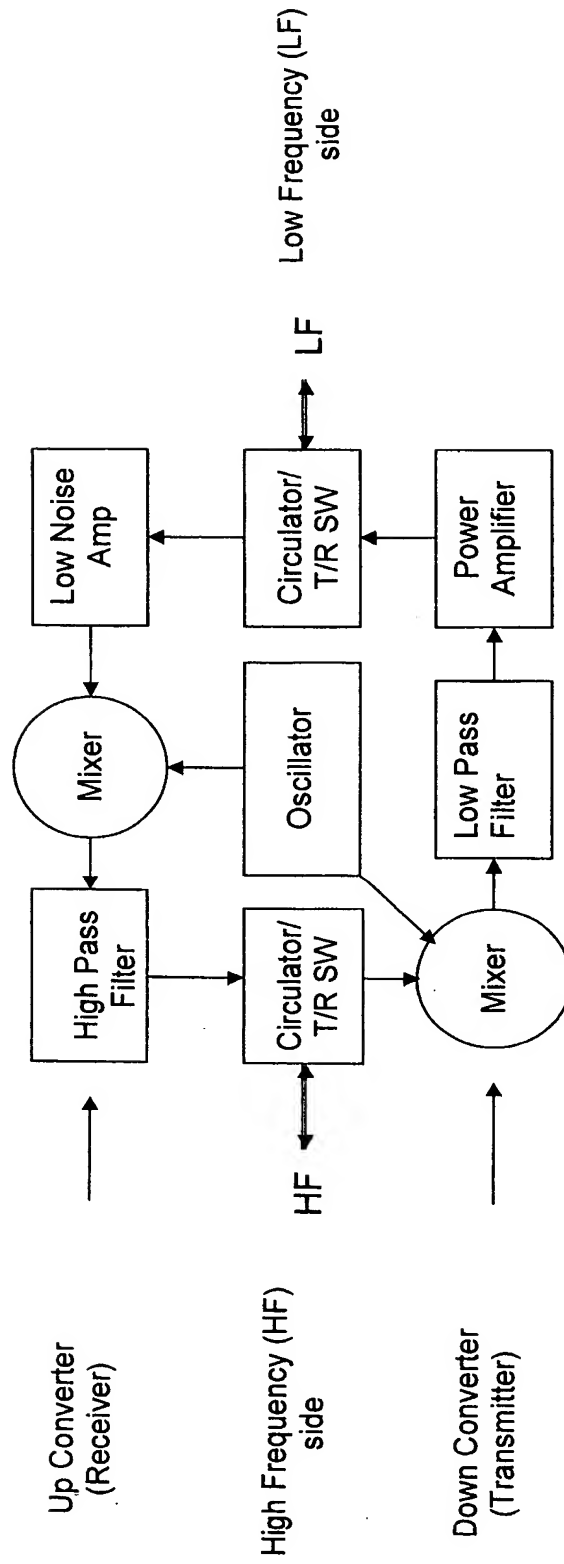
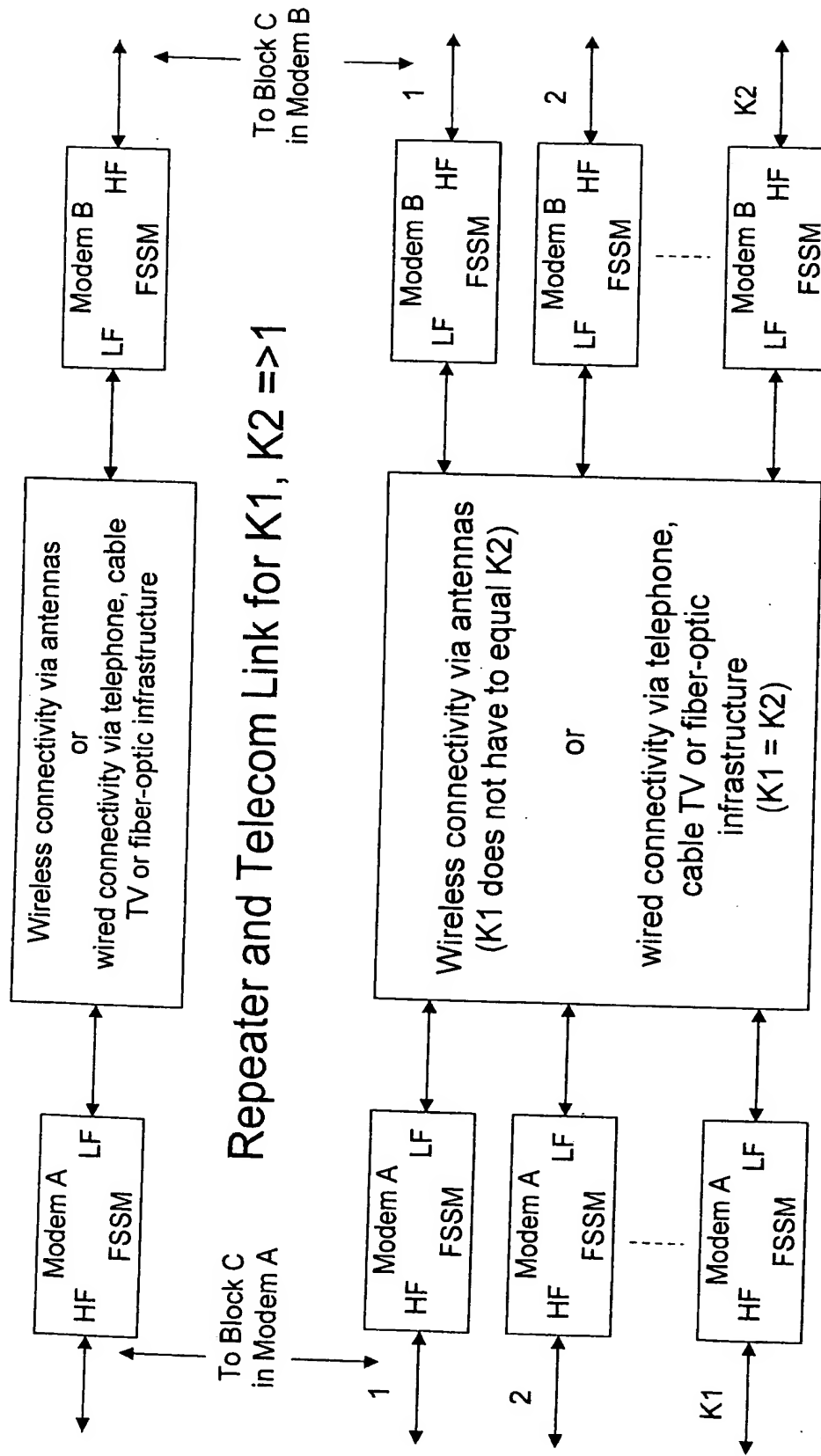


Fig. 7 – Frequency Spectrum Shifting Module (FSSM)
Block Diagram
(part of Fig. 8)



One FSSM per K1 and per K2 channel

Fig. 8 – Repeater and Telecom Link
(Block D of Fig. 1) for $K=1$



Notes

FSSM is described in Fig. 7